STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/592,919_

Source: _JFWP_

Date Processed by STIC: _09/25/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio **(<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _10/592,919_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
      Wrapped Aminos   was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will
                         prevent "wrapping."

2_____Invalid Line Length   The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3_____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers;
      Numbering   use **space characters**, instead.

4_____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please
                         ensure your subsequent submission is saved in ASCII text.**

5_____Variable Length   Sequence(s)_____contain n's or Xaa's representing more than one residue. **Per Sequence Rules,
                         each n or Xaa can only represent a single residue.** Please present the **maximum** number of each
                         residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
      "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
                         previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
                         the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
                         Artificial or Unknown sequences.**

7_____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
      (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                         (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
                         (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
                         This sequence is intentionally skipped
                         Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8_____Skipped Sequences   Sequence(s) ___9___ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
      (NEW RULES)   <210> sequence id number
                         <400> sequence id number
                         000

9_____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
      (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
                         In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue n or **Xaa** represents.

10_____Invalid <213>   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
       Response   scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
                         is Artificial Sequence. (see item 11 below)

11._____Use of <220>   Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses. Use
                         of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
                         Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as
                         explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of
                         Sequence Rules

12_____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
       "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
                         listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____ Misuse of n/Xaa   "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

IFWP

RAW SEQUENCE LISTING   DATE: 09/25/2006
PATENT APPLICATION: US/10/592,919   TIME: 10:25:26

Input Set : A:\CORE0037USASEQ.txt
Output Set: N:\CRF4\09252006\J592919.raw

```
      4 <110> APPLICANT: Michael, T. Migawa
      5          Walter F. Lima
      6          Eric E. Swayze
      7          Joshua Nichols
      8          Hongjiang Wu
      9          Thazha P. Prakash
     10          Tadeusz Krzysztof Wyrzykiewicz
     11          Balkrishen Bhat
     12          Stanley T. Crooke
     15 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OPTIMIZING
     16          CLEAVAGE OF RNA BY RNASE H
     19 <130> FILE REFERENCE: CORE0037USA
C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/592,919
C--> 21 <141> CURRENT FILING DATE: 2006-09-15
     21 <150> PRIOR APPLICATION NUMBER: PCT/US2005/008428
     22 <151> PRIOR FILING DATE: 2005-03-15
     24 <150> PRIOR APPLICATION NUMBER: 60/609,516
     25 <151> PRIOR FILING DATE: 2004-09-13
     27 <150> PRIOR APPLICATION NUMBER: 60/567,016
     28 <151> PRIOR FILING DATE: 2004-04-29
     30 <150> PRIOR APPLICATION NUMBER: 60/553,646
     31 <151> PRIOR FILING DATE: 2004-03-15
     33 <160> NUMBER OF SEQ ID NOS: 48
     35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     37 <210> SEQ ID NO: 1
     38 <211> LENGTH: 20
     39 <212> TYPE: DNA
     40 <213> ORGANISM: Artificial Sequence
     42 <220> FEATURE:
     43 <223> OTHER INFORMATION: Synthetic oligonucleotide
     45 <400> SEQUENCE: 1
     46 ctacgctttc cacgcacagt                                      20
     48 <210> SEQ ID NO: 2
     49 <211> LENGTH: 20
     50 <212> TYPE: DNA
     51 <213> ORGANISM: Artificial Sequence
     53 <220> FEATURE:
     54 <223> OTHER INFORMATION: Synthetic oligonucleotide
     56 <400> SEQUENCE: 2
     57 agtttaggtc tccgatcgtc                                      20
     59 <210> SEQ ID NO: 3
     60 <211> LENGTH: 20
     61 <212> TYPE: DNA
```

CP3-6)
Does Not Comply
Corrected Diskette Needed
CP3-3)

RAW SEQUENCE LISTING   DATE: 09/25/2006
PATENT APPLICATION: US/10/592,919   TIME: 10:25:26

Input Set : **A:\CORE0037USASEQ.txt**
Output Set: **N:\CRF4\09252006\J592919.raw**

```
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Synthetic oligonucleotide
 67 <400> SEQUENCE: 3
 68 ctgctagcct ctggatttga                                             20
 70 <210> SEQ ID NO: 4
 71 <211> LENGTH: 2160
 72 <212> TYPE: DNA
 73 <213> ORGANISM: Mus musculus
 75 <400> SEQUENCE: 4
 76 ggcgccctgc tctcccggcg gggcggcgga ggggcgggc tggccggcgc acggtgatgt 60
 77 ggcgggactc tttgtgcact gcggcaggat acgcgcttgg gcgtcgggac gcggctgcgc 120
 78 tcagctctct cctctcggaa gctgcagcca tgatggaagt ttgagagttg agccgctgtg 180
 79 aggccaggcc cggcgcaggc gagggagatg agagacggcg gcggccacgg cccagagccc 240
 80 ctctcagcgc ctgtgagcag ccgcgggggc agcgccctcg gggagccggc cgggcggcgg 300
 81 cggcggcagc ggcggcgggc ctcgcctcct cgtcgtctgt tctaaccggg cagcttctga 360
 82 gcagcttcgg agagagacgg tggaagaagc cgtgggctcg agcgggagcc ggcgcaggct 420
 83 cggcggctgc acctcccgct cctggagcgg gggggagaag cggcggcggc ggccgcggct 480
 84 ccggggaggg ggtcggagtc gcctgtcacc attgccaggg ctgggaacgc cggagagttg 540
 85 ctctctcccc ttctcctgcc tccaacacgg cggcggcggc ggcggcacgt ccagggaccc 600
 86 gggccggtgt taagcctccc gtccgccgcc gccgccccc ccctggcccg ggctccggag 660
 87 gccgccggag gaggcagccg ctgcgaggat tatccgtctt ctccccattc cgctgcctcg 720
 88 gctgccaggc ctctggctgc tgaggagaag caggcccagt ctctgcaacc atccagcagc 780
 89 cgccgcagca gccattaccc ggctgcggtc cagggccaag cggcagcaga gcgaggggca 840
 90 tcagcgaccg ccaagtccag agccatttcc atcctgcaga agaagcctcg ccaccagcag 900
 91 cttctgccat ctctctcctc cttttcttc agccacaggc tcccagacat gacagccatc 960
 92 atcaaagaga tcgttagcag aaacaaaagg agatatcaag aggatggatt cgacttagac 1020
 93 ttgacctata tttatccaaa tattattgct atgggatttc ctgcagaaag acttgaaggt 1080
 94 gtatacagga acaatattga tgatgtagta aggttttgg attcaaagca taaaaaccat 1140
 95 tacaagatat acaatctatg tgctgagaga cattatgaca ccgccaaatt taactgcaga 1200
 96 gttgcacagt atcctttga agaccataac ccaccacagc tagaacttat caaacccttc 1260
 97 tgtgaagatc ttgaccaatg gctaagtgaa gatgacaatc atgttgcagc aattcactgt 1320
 98 aaagctggaa agggacggac tggtgtaatg atttgtgcat atttattgca tcggggcaaa 1380
 99 tttttaaagg cacaagaggc cctagatttt tatggggaag taaggaccag agacaaaaag 1440
100 ggagtcacaa ttcccagtca gaggcgctat gtatattatt atagctacct gctaaaaaat 1500
101 cacctggatt acagacccgt ggcactgctg tttcacaaga tgatgtttga aactattcca 1560
102 atgttcagtg gcggaacttg caatcctcag tttgtggtct gccagctaaa ggtgaagata 1620
103 tattcctcca attcaggacc cacgcggcgg gaggacaagt tcatgtactt tgagttccct 1680
104 cagccattgc ctgtgtgtgg tgatatcaaa gtagagttct tccacaaaca gaacaagatg 1740
105 ctcaaaaagg acaaaatgtt tcacttttgg gtaaatacgt tcttcatacc aggaccagag 1800.
106 gaaacctcag aaaaagtgga aaatggaagt ctttgtgatc aggaaatcga tagcatttgc 1860
107 agtatagagc gtgcagataa tgacaaggag tatcttgtac tcaccctaac aaaaaacgat 1920
108 cttgacaaag caaacaaaga caaggccaac cgatacttct ctccaaattt taaggtgaaa 1980
109 ctatacttta caaaaacagt agaggagcca tcaaatccag aggctagcag ttcaacttct 2040
110 gtgactccag atgttagtga caatgaacct gatcattata gatattctga caccactgac 2100
111 tctgatccag agaatgaacc ttttgatgaa gatcagcatt cacaaattac aaaagtctga 2160
114 <210> SEQ ID NO: 5
115 <211> LENGTH: 24
116 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 09/25/2006
PATENT APPLICATION: **US/10/592,919**   TIME: 10:25:26

Input Set : **A:\CORE0037USASEQ.txt**
Output Set: **N:\CRF4\09252006\J592919.raw**

```
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Synthetic oligonucleotide
122 <400> SEQUENCE: 5
123 atgacaatca tgttgcagca attc                                    24
125 <210> SEQ ID NO: 6
126 <211> LENGTH: 25
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Synthetic oligonucleotide
133 <400> SEQUENCE: 6
134 cgatgcaata aatatgcaca aatca                                   25
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 28
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Synthetic oligonucleotide
144 <400> SEQUENCE: 7
145 ctgtaaagct ggaaagggac ggactggt                                28
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 20
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic oligonucleotide
155 <400> SEQUENCE: 8
156 ccttccctga aggttcctcc                                         20
158 <210> SEQ ID NO: 9
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Synthetic oligonucleotide
163 <400> SEQUENCE: 9
164 000
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 12
168 <212> TYPE: RNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic oligonucleotide
174 <400> SEQUENCE: 10
175 cgcgaauucg cg                                                 12
177 <210> SEQ ID NO: 11
178 <211> LENGTH: 12
179 <212> TYPE: RNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Synthetic oligonucleotide
185 <400> SEQUENCE: 11
```

W--> (handwritten annotation pointing to line 164): *If this is Intentionally skipped sequence, see Item 8 on Error Summary sheet.*

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           Input Set : **A:\CORE0037USASEQ.txt**
           Output Set: **N:\CRF4\09252006\J592919.raw**

```
    186 gcgcuuaagc gc                                          12
    188 <210> SEQ ID NO: 12
    189 <211> LENGTH: 19
    190 <212> TYPE: RNA
    191 <213> ORGANISM: Artificial Sequence
    193 <220> FEATURE:
    194 <223> OTHER INFORMATION: Synthetic oligonucleotide
    196 <400> SEQUENCE: 12
    197 cgagaggcgg acgggaccg                                   19
    199 <210> SEQ ID NO: 13
    200 <211> LENGTH: 21
    201 <212> TYPE: DNA
    202 <213> ORGANISM: Artificial Sequence
    204 <220> FEATURE:
    205 <223> OTHER INFORMATION: Synthetic oligonucleotide
    207 <220> FEATURE:
    208 <221> NAME/KEY: misc_feature
    209 <222> LOCATION: 1-19
    210 <223> OTHER INFORMATION: Bases at these positions are RNA
    212 <400> SEQUENCE: 13
    213 cgagaggcgg acgggaccgt t                                21
    215 <210> SEQ ID NO: 14
    216 <211> LENGTH: 21
    217 <212> TYPE: DNA
    218 <213> ORGANISM: Artificial Sequence
    220 <220> FEATURE:
    221 <223> OTHER INFORMATION: Synthetic oligonucleotide
    223 <220> FEATURE:
    224 <221> NAME/KEY: misc_feature
    225 <222> LOCATION: 1-19
    226 <223> OTHER INFORMATION: Bases at these positions are RNA
    228 <400> SEQUENCE: 14
    229 cggtcccgtc cgcctctcgt t                                21
    231 <210> SEQ ID NO: 15
    232 <211> LENGTH: 20
    233 <212> TYPE: DNA
    234 <213> ORGANISM: Artificial Sequence
    236 <220> FEATURE:
    237 <223> OTHER INFORMATION: Synthetic oligonucleotide
    239 <220> FEATURE:
    240 <221> NAME/KEY: misc_feature
    241 <222> LOCATION: 4
    242 <223> OTHER INFORMATION: N = tetrafluoroindole
    244 <400> SEQUENCE: 15
W--> 245 ctgntagcct ctggatttga                                 20
    247 <210> SEQ ID NO: 16
    248 <211> LENGTH: 20
    249 <212> TYPE: DNA
    250 <213> ORGANISM: Artificial Sequence
```

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Input Set : A:\CORE0037USASEQ.txt
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```
      252 <220> FEATURE:
      253 <223> OTHER INFORMATION: Synthetic oligonucleotide
      255 <220> FEATURE:
      256 <221> NAME/KEY: misc_feature
      257 <222> LOCATION: 5
      258 <223> OTHER INFORMATION: N = tetrafluoroindole
      260 <400> SEQUENCE: 16
W--> 261 ctgcnagcct ctggatttga                                      20
      263 <210> SEQ ID NO: 17
      264 <211> LENGTH: 20
      265 <212> TYPE: DNA
      266 <213> ORGANISM: Artificial Sequence
      268 <220> FEATURE:
      269 <223> OTHER INFORMATION: Synthetic oligonucleotide
      271 <220> FEATURE:
      272 <221> NAME/KEY: misc_feature
      273 <222> LOCATION: 6
      274 <223> OTHER INFORMATION: N = tetrafluoroindole
      276 <400> SEQUENCE: 17
W--> 277 ctgctngcct ctggatttga                                      20
      279 <210> SEQ ID NO: 18
      280 <211> LENGTH: 20
      281 <212> TYPE: DNA
      282 <213> ORGANISM: Artificial Sequence
      284 <220> FEATURE:
      285 <223> OTHER INFORMATION: Synthetic oligonucleotide
      287 <220> FEATURE:
      288 <221> NAME/KEY: misc_feature
      289 <222> LOCATION: 7
      290 <223> OTHER INFORMATION: N = tetrafluoroindole
      292 <400> SEQUENCE: 18
W--> 293 ctgctancct ctggatttga                                      20
      295 <210> SEQ ID NO: 19
      296 <211> LENGTH: 20
      297 <212> TYPE: DNA
      298 <213> ORGANISM: Artificial Sequence
      300 <220> FEATURE:
      301 <223> OTHER INFORMATION: Synthetic oligonucleotide
      303 <220> FEATURE:
      304 <221> NAME/KEY: misc_feature
      305 <222> LOCATION: 8
      306 <223> OTHER INFORMATION: N = tetrafluoroindole
      308 <400> SEQUENCE: 19
W--> 309 ctgctagnct ctggatttga                                      20
      311 <210> SEQ ID NO: 20
      312 <211> LENGTH: 20
      313 <212> TYPE: DNA
      314 <213> ORGANISM: Artificial Sequence
      316 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/25/2006
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Input Set : **A:\CORE0037USASEQ.txt**
Output Set: **N:\CRF4\09252006\J592919.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 4
Seq#:16; N Pos. 5
Seq#:17; N Pos. 6
Seq#:18; N Pos. 7
Seq#:19; N Pos. 8
Seq#:20; N Pos. 10
Seq#:21; N Pos. 5
Seq#:22; N Pos. 17
Seq#:23; N Pos. 16
Seq#:24; N Pos. 15
Seq#:25; N Pos. 14
Seq#:26; N Pos. 13
Seq#:27; N Pos. 5,15
Seq#:28; N Pos. 16
Seq#:29; N Pos. 7
Seq#:30; N Pos. 8
Seq#:31; N Pos. 9
Seq#:32; N Pos. 10
Seq#:33; N Pos. 11
Seq#:34; N Pos. 12
Seq#:35; N Pos. 13
Seq#:36; N Pos. 14
Seq#:37; N Pos. 15
Seq#:38; N Pos. 4
Seq#:39; N Pos. 5
Seq#:40; N Pos. 6
Seq#:41; N Pos. 7
Seq#:42; N Pos. 8
Seq#:43; N Pos. 13
Seq#:44; N Pos. 14
Seq#:45; N Pos. 15
Seq#:46; N Pos. 16
Seq#:47; N Pos. 17
Seq#:48; N Pos. 6,16

VERIFICATION SUMMARY   DATE: 09/25/2006
PATENT APPLICATION: **US/10/592,919**   TIME: 10:25:27

Input Set : **A:\CORE0037USASEQ.txt**
Output Set: **N:\CRF4\09252006\J592919.raw**

```
L:21  M:270 C: Current Application Number differs, Replaced Current Application No
L:21  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:164 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (9) SEQUENCE:
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
```